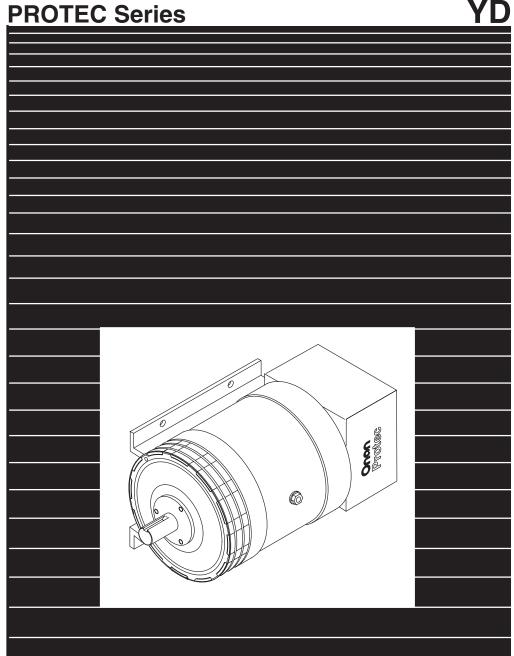
Onan

Commercial

Generator Parts Catalog



Printed in U.S.A.

929-0201B 9-99 (Spec A-C)

Replaces 929-0201 3-95 (Spec A)

MODEL IDENTIFICATION

To avoid errors or delay in filling your parts order, always give the MODEL, SPEC NO. and SERIAL NO. from the Onan nameplate.

For handy reference, insert your nameplate information in the spaces below.

MODEL AND SPEC NO.

SERIAL NO.

DIGITAL CONTROL SOFTWARE VERSION AND DATE (IF APPLICABLE)

SAFETY PRECAUTIONS

The following symbols are used in Onan manuals to alert users to the potentially dangerous conditions relating to maintenance of equipment and replacement of parts. Please read and observe.

▲ DANGER

This symbol warns of immediate hazards which will result in severe personal injury or death.

△WARNING

This symbol refers to a hazard or unsafe practice which can result in severe personal injury or death.

△CAUTION

This symbol refers to a hazard or unsafe practice which can result in severe personal injury or product or property damage.

PRODUCT SAFETY PRECAUTIONS

△WARNING

Service and repair of Onan equipment must be performed by trained, experienced personnel only. Improper service or repair may result in property damage, severe personal injury or death. Do not use this catalog as a guide to servicing your equipment. Read and follow the IMPORTANT SAFETY INSTRUCTIONS in the Service Manual appropriate for the equipment you are working on.

△WARNING

Contact with USED ENGINE OILS has been identified by a United States federal agency and some USA state agencies as causing CANCER or REPRODUCTIVE TOXICITY. When checking or changing engine oils take all necessary precautions not to ingest, breathe the fumes or contact the used oil.

△WARNING

Contact with ASBESTOS has been identified by a United States federal agency and some USA state agencies as causing CANCER or REPRODUCTIVE TOXICITY. When handling engine gaskets take all necessary precautions not to ingest, breathe or contact the dust from the gaskets! Use adequate ventilation and wear protective gloves, masks and clothing!

△WARNING

Contact with BENZINE and LEAD, found in gasoline, fuel additives and solvents has been identified by a United States federal agency and some USA state agencies as causing CANCER or REPRODUCTIVE TOXICITY. When checking, draining or adding gasoline and fuel additives or using solvents take all necessary precautions not to ingest, breathe the fumes or contact the liquids. Use adequate ventilation and wear protective gloves, masks and protective clothing!

Introduction

This catalog applies to the AC PTO Generator as listed in the Generator Set Data Table. Parts are arranged in groups of related items and each illustrated part is identified by a reference number corresponding to the same reference number in the parts list. Parts illustrations are typical. Unless otherwise mentioned in the description or the page heading, parts are interchangeable between models. Using the model and specification number from your generator set nameplate, select parts that apply to your set.

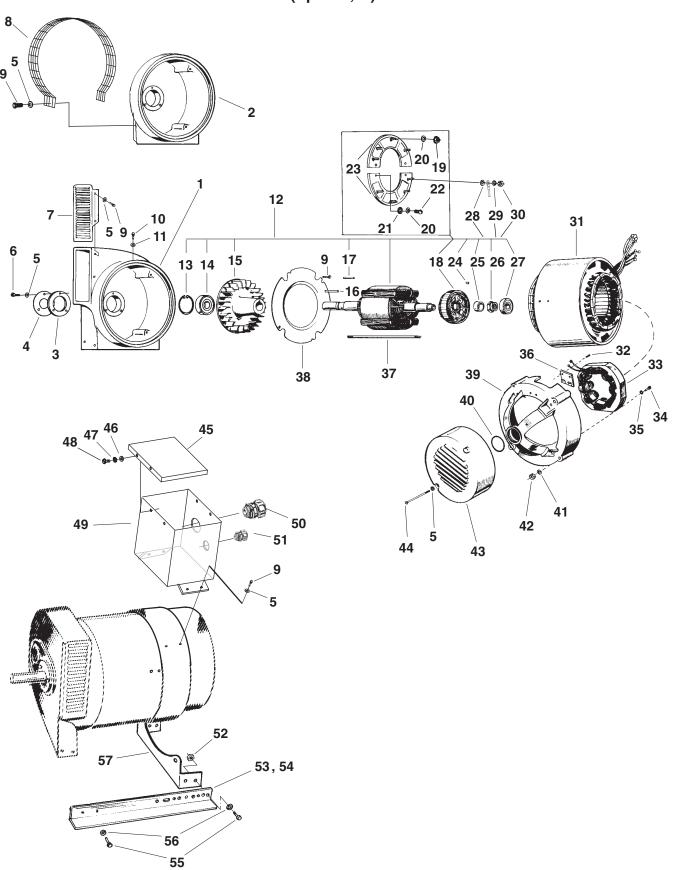
Generator Set Data Table

Model Number	Voltage	Hertz	<u>Phase</u>
15YD-CJ/376A, B	120/240	60	1
15YD-CR/621C		60	1
15YD-CR/622C	Reconnect	60	3
20YD-CJ/376A, B	120/240	60	1
20YD-CR/621C		60	1
20YD-CR/622C	Reconnect	60	3
24YD-CJ/376A, B	120/240	60	1
25YD-CJ/376B	120/240	60	1
25YD-CR/621C		60	1
25YD-CR/622C	Reconnect	60	3
30YD-CJ/376A, B	120/240	60	1
30YD-CR/621C		60	1
32YD-CJ/376B	120/208	60	3
32YD-CR/622C	Reconnect	60	3
35YD-CJ/376A, B	120/240	60	1
35YD-CR/621C		60	1
37YD-CJ/376B	120/208	60	3
37YD-CR/622C	Reconnect	60	3
40YD-CR/622C	Reconnect	60	3
12YD-CJ/376A, B	115/230	50	1
12YD-CR/621C		50	1
12YD-CR/622C	Reconnect	50	3
16YD-CJ/376A, B	115/230	50	1
16YD-CR/621C		50	1
16YD-CR/622C	Reconnect	50	3
20YD-CJ/376A, B	115/230	50	1
20YD-CR/621C		50	1
30YD-CR/622C	Reconnect	50	3
24YD-CJ/376A, B	115/230	50	1
25YD-CR/621C		50	1
25YD-CR/622C	Reconnect	50	3
30YD-CJ/376A, B	115/230	50	1
30YD-CR/621C		50	1
30YD-CR/622C	Reconnect	50	3
31YD-CR/622C	Reconnect	50	3

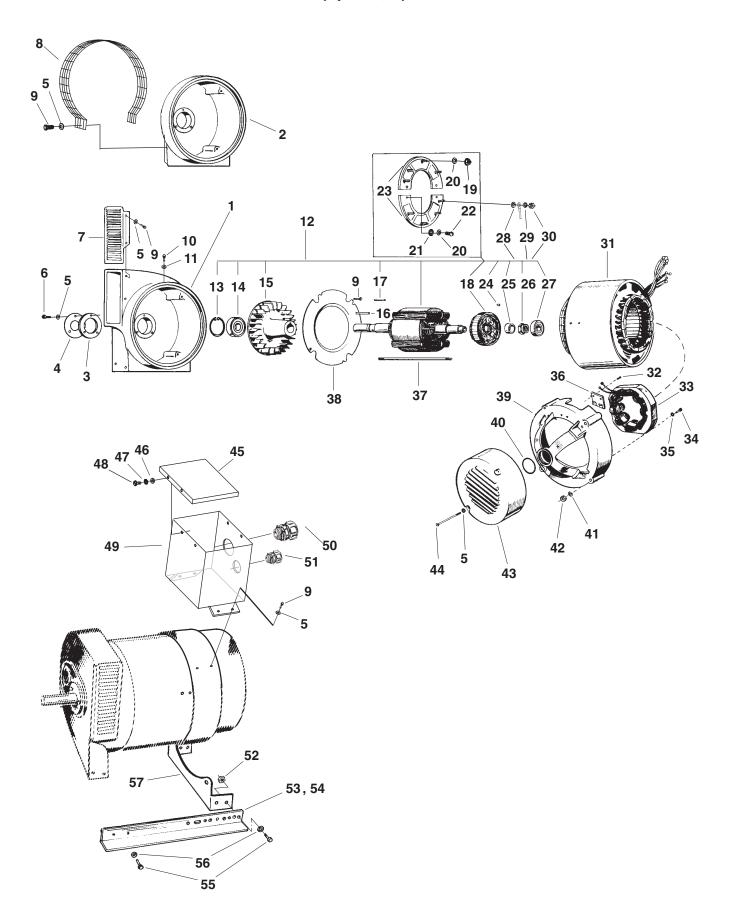
^{* –} The diagonal line (/) in the model and specification number separates generator set characteristics from the specification number and letter. The specification number denotes customer requested options or deviations from a standard (1A,1B, etc.) model. The specification letter advances (A to B, B to C, etc.) with major manufacturing changes.

Index

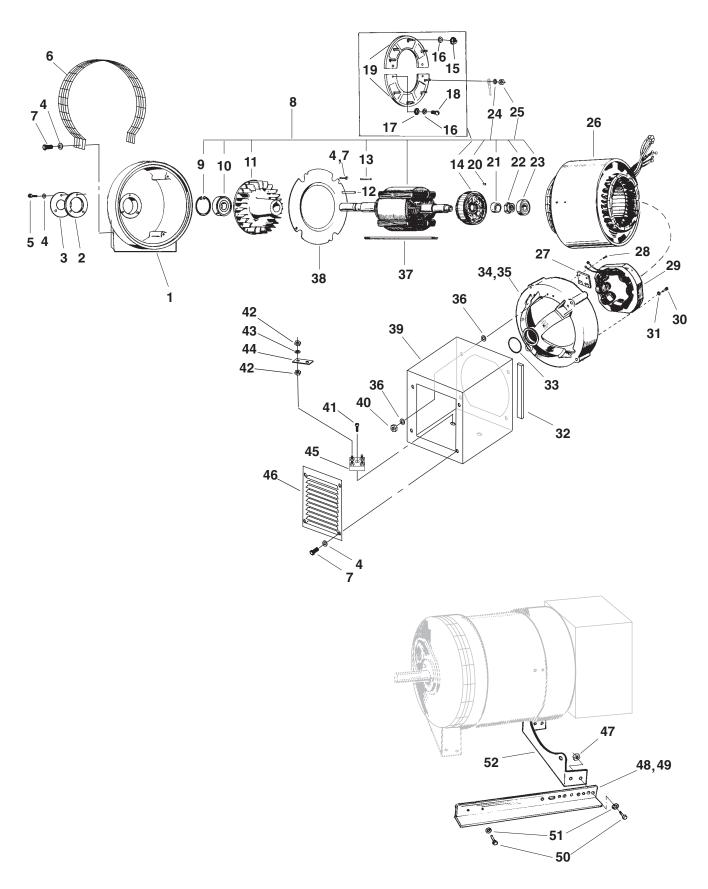
Adapter, Generator (Begin Spec C), 9 Key (Spec A, B), 5 Adapter, Generator (Spec A, B), 5 Labels, 20 Baffle, Air (Begin Spec C), 11 Link, Terminal Block Bus, 11 Baffle, Air (Spec A, B), 7 Meter, AC Amp (12kW, 15kW, 16kW), 15 Bearing, Ball (Begin Spec C), 9 Meter, AC Amp (20kW, 24kW, 25kW), 17 Bearing, Ball (Spec A, B), 5 Meter, AC Amp (30kW, 35kW), 19 Block, Reconnect Box Terminal, 11 Meter, Frequency (12kW, 15kW, 16kW), 15 Block, Switchboard Terminal (20kW, 24kW, 25kW), 17 Meter, Frequency (20kW, 24kW, 25kW), 17 Block, Switchboard Terminal (30kW, 35kW), 19 Meter, Frequency (30kW, 35kW), 19 Board, Connection (Begin Spec C), 9 Meter, Time Totalizing (12kW, 15kW, 16kW), 15 Board, Connection (Spec A, B), 5 Meter, Time Totalizing (20kW, 24kW, 25kW), 17 Box, Output (Begin Spec C), 11 Meter, Time Totalizing (30kW, 35kW), 19 Box, Output (Spec A, B), 7 Meter, Volt (12kW, 15kW, 16kW), 15 Box, Switchboard (12kW, 15kW, 16kW), 15 Meter, Volt (20kW, 24kW, 25kW), 17 Box, Switchboard (20kW, 24kW, 25kW), 17 Meter, Volt (30kW, 35kW), 19 Box, Switchboard (30kW, 35kW), 19 Bracket, Circuit Breaker (30kW, 35kW), 19 Panel, Control (12kW, 15kW, 16kW), 15 Bracket, Generator Support (Begin Spec C), 11 Panel, Control (20kW, 24kW, 25kW), 17 Bracket, Generator Support (Spec A, B), 7 Panel, Control (30kW, 35kW), 19 Bracket, Panel Stop (20kW, 24kW, 25kW), 17 Panel, Voltage Regulator, 13 Bracket, Panel Stop (30kW, 35kW), 19 Plate, Ground (20kW, 24kW, 25kW), 17 Breaker, Regulator Circuit, 13 Plate, Ground (30kW, 35kW), 19 Breaker, Switchboard Circuit (12kW, 15kW, 16kW), 15 Plug, Hole (12kW, 15kW, 16kW), 15 Breaker, Switchboard Circuit (20kW, 24kW, 25kW), 17 Plug, Hole (20kW, 24kW, 25kW), 17 Breaker, Switchboard Circuit (30kW, 35kW), 19 Reactor, 13 Connector, Output Box Straight, 7 Rectifier, Exciter Rotor (Begin Spec C), 9 Connector, Voltage Regulator Straight, 13 Rectifier, Exciter Rotor (Spec A, B), 5 Cover, Bearing (Begin Spec C), 9 Regulator, 13 Cover, Bearing (Spec A, B), 5 Retainer, Bearing (Begin Spec C), 9 Cover, Endbell (Spec A, B), 7 Retainer, Bearing (Spec A, B), 5 Cover, Endbell Inlet (Begin Spec C), 11 Ring, External Retainer (Begin Spec C), 9 Cover, Output Box, 7 Ring, External Retainer (Spec A, B), 5 Cover, Regulator, 13 Rotor, Exciter (Begin Spec C), 9 Rotor, Exciter (Spec A, B), 5 Edging, Endbell, 11 Rotor, Generator (Begin Spec C), 9 Endbell (Begin Spec C), 11 Rotor, Generator (Spec A, B), 5 Endbell (Spec A, B), 7 Seal, O'Ring (Begin Spec C), 11 Fan, Generator (Begin Spec C), 9 Seal, O'Ring (Spec A, B), 7 Fan, Generator (Spec A, B), 5 Spacer, Rotor Bearing (Begin Spec C), 9 Foot, Mounting (Begin Spec C), 11 Spacer, Rotor Bearing (Spec A, B), 5 Foot, Mounting (Spec A, B), 7 Stator, Exciter (Begin Spec C), 9 Gasket, Output Box, 11 Stator, Exciter (Spec A, B), 5 Generator (Begin Spec C), 9, 11 Stator, Generator (Begin Spec C), 9 Generator (Spec A, B), 5, 7 Stator, Generator (Spec A, B), 5 Grille, Fan (Spec A), 5 Strip, Terminal, 13 Guard, Fan (Begin Spec B), 5 Stud, Through (Begin Spec C), 11 Guard, Fan (Begin Spec C), 9 Stud, Through (Spec A, B), 7 Switchboard (12kW, 15kW, 16kW), 15 Handle, Control Panel (12kW, 15kW, 16kW), 15 Switchboard (20kW, 24kW, 25kW), 17 Handle, Control Panel (20kW, 24kW, 25kW), 17 Switchboard (30kW, 35kW), 19 Handle, Control Panel (30kW, 35kW), 19 Terminal, Tab, 13 Jumper, Terminal, 13 Transformer, Current (20kW, 24kW), 17 Key (Begin Spec C), 9 Transformer, Current (30kW, 35kW), 19 Transformer, Voltage, 13



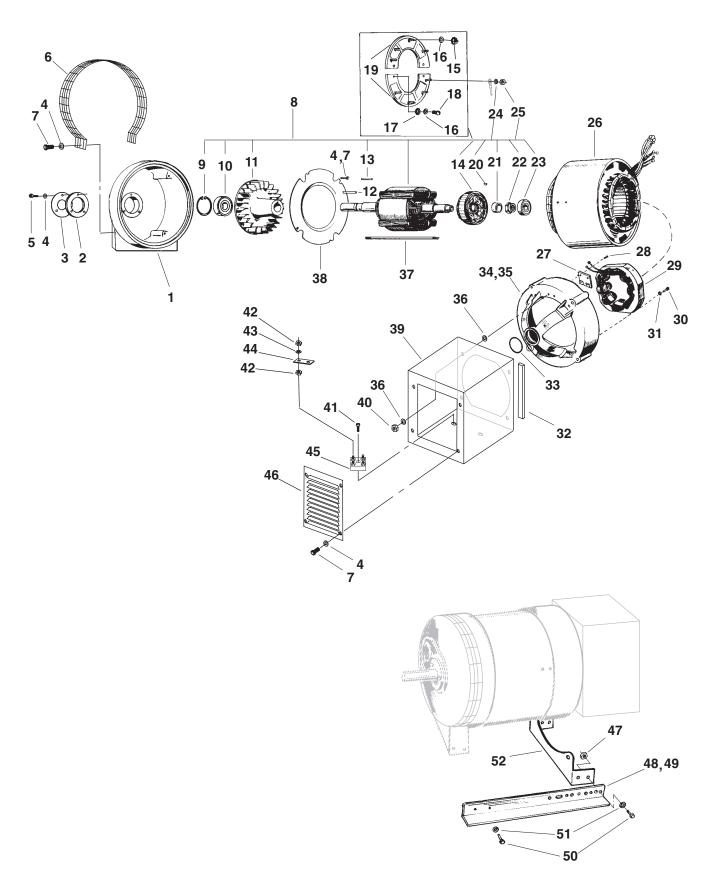
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	231-0185	1	Adapter, Generator (Spec A)	19	870-0131	6	+Nut, ET Hex
2	231-0363	1	Adapter, Generator (Spec B)	20	526-0008	10	+Washer, Flat (#10)
3	232–2576	1	Retainer, Bearing	21	853-0008	4	+Washer, ET Lock (#10)
4	232–2453	1	Cover, Bearing	22	813–0100	4	+Screw, Round Head Machine
5	526-0399-13		Washer, Flat (1/4")	00			(10–32 x 1/2")
6	800-0310-07	3	Screw, Hex Head Cap (1/4-20 x 1-1/4")	23	358-0069	4	+Rectifier Assy Positive
7	234-0522	1	Grille, Fan (Spec A)		358–0069	1 1	Negative
8	232–3916	1	Fan Guard (Spec B)	24	515-0094	i	*Key, Woodruff (#6)
9	800-0310-02	11	Screw, Hex Head Cap	25	232–2398	1	*Spacer, Bearing
			(1/4–20 x 1/2")	26	870-0284	1	*Nut, Nylon Insert Lock
10	800-0310-62	1	Screw, Hex Head Cap				(1-1/8-12UNF)
			(1/2-13 x 3/4") (Spec A)	27	510-0112	1	*Bearing, Ball
11	526-0399-25	1	Washer, Flat (1/2") (Spec A)	28	850-0030	2	*Washer, Lock (#10) (Spec A)
12			Rotor Assy (Includes Parts Marked *)				(60 Hz – 15/20/24kW Only;
			Spec A	29	526-0008	2	50Hz – 12/16/20kW Only) *Washer, Flat (#10)
			60 Hz	30	870–0000	2	*Nut, ET Hex (#10–32)
	201-2338	1	15kW	31	0.0 0.0.	_	Stator
	201-2340	1	20kW				60 Hz
	201–2341	1	24kW		220-4454-01	1	15kW
	201–3529–01	1	30kW		220-4454-02	1	20kW
	201–3529–02	1	35kW		220-4454-03	1	24kW, 25kW
	201–2338	1	50 Hz 12kW		220–4454–04 220–4501–04	1 1	30kW 32kW (3 Phase)
	201–2340	1	16kW		220-4454-05	1	35kW
	201–2341	1	20kW		220-4501-05	i	37kW (3 Phase)
	201-3529-01	1	24kW			-	50 Hz
	201-3529-02	1	30kW		220-4454-01	1	12kW
			Spec B		220-4454-02	1	16kW
			60 Hz		220-4454-03	1	20kW
	201–3543–01	1 1	15kW		220-4454-04	1	24kW 30kW
	201–3543–02 201–3543–03		20kW 24kW, 25kW	32	220–4454–05 815–0194	1 2	Screw, ET Hex Head Thread
	201–3543–04		30kW, 32kW	02	013-013-	2	Cutting (#10–32 x 3/8")
	201–3543–05	1	35kW, 37kW	33			Stator, Exciter
			50 Hz				60 Hz
	201-3543-01	1	12kW		220-2308	1	15kW, 20kW, 24kW, 25kW
	201–3543–02	1	16kW		220–2309	1	30kW, 32kW, 35kW, 37kW
	201-3543-03	1	20kW		220 2200	4	50 Hz
	201–3543–04 201–3543–05	1 1	24kW 30kW		220–2308 220–2309	1 1	12kW, 16kW, 20kW 24kW, 30kW
13	518–0333	1	*Ring, External Retainer	34	220-2505	'	Screw, Slotted Head
14	510-0115	1	*Bearing, Ball (With Snap Ring)	٠.			Countersunk (1/4–20)
15			*Fan, Generator				60Hz
	205-0114	1	Spec A		802-0038	4	15kW, 20kW, 24kW, 25kW
	205-0247	1	Spec B		802-0040-01	4	30kW, 32kW, 35kW, 37kW
16	515-0212	1	Key, Machined		000 0000	4	50 Hz
17 18	515–0051	1	*Key, Machined *Rotor, Exciter (Includes Parts		802–0038 802–0040–01	4 4	12kW, 16kW, 20kW 24kW, 30kW
10			Marked +)	35	850-0114-05	4	Washer, Lock (1/4")
			60 Hz		232–2418	1	Board, Connection
	201-2151	1	15kW, 20kW, 24kW, 25kW				· · · · · · · · · · · · · · · · · · ·
	201-2152	1	30kW, 35kW	+	.		
			50 Hz		Parts Included		
	201–2151	1	12kW, 16kW, 20kW	+ -	Parts Included	WIIII ⊨X	ciler Holor.
	201–2152	1	24kW, 30kW				



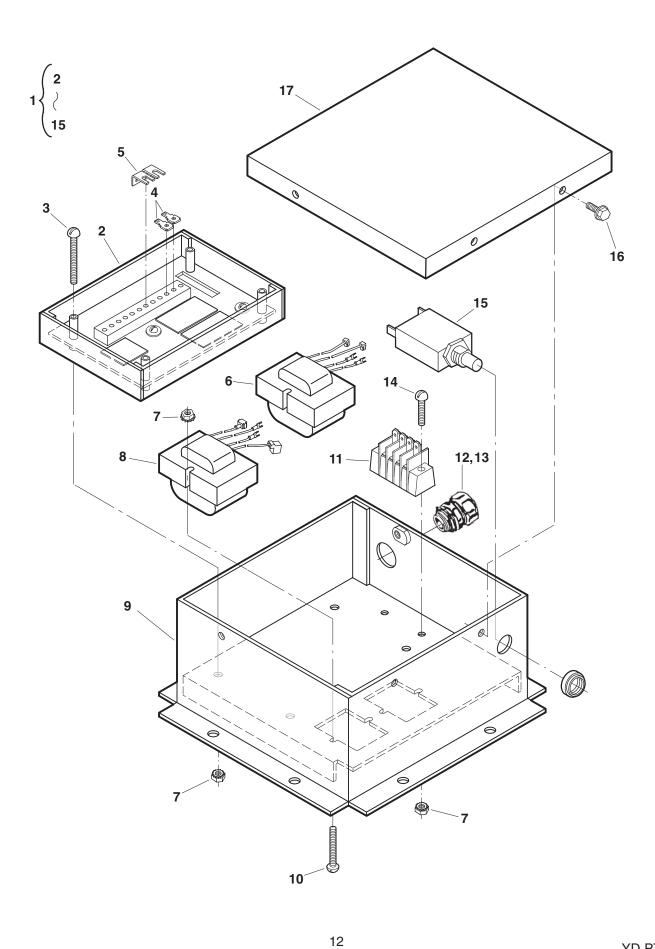
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
37			Stud, Through	49	319–2502	1	Box, Output
			60 Hz	50	331–0551	1	Connector, Straight (1-1/4")
	520-0797	4	15kW	51	331–0115	1	Connector, Straight (1/2")
	520-0799	4	20kW	52	862-0026-08	4	Nut, Hex (7/16–14)
	520-0800	4	24kW, 25kW	53			Foot, Right Mounting
	520-0801	4	30kW, 32kW				60 Hz
	520-0802	4	35kW, 37kW		232–2577	1	15kW, 20kW, 24kW, 25kW
			50 Hz		232–3893	1	30kW, 32kW, 35kW, 37kW
	520-0797	4	12kW				50 Hz
	520-0799	4	16kW		232–2577	1	12kW, 16kW, 20kW
	520-0800	4	20kW		232–3893	1	24kW, 30kW
	520-0801	4	24kW	54			Foot, Left Mounting
	520-0802	4	30kW				60 Hz
38			Baffle, Air		232-2578	1	15kW, 20kW, 24kW, 25kW
	234-0519	1	Spec A		232-3892	1	30kW, 32kW, 35kW, 37kW
	234-0969	1	Spec B				50 Hz
39			Endbell		232-2578	1	12kW, 16kW, 20kW
	211-0470	1	Spec A		232-3892	1	24kW, 30kW
	211-0256-04	1	Spec B	55	800-0310-50	8	Screw, Hex Head Cap
40	509-0094	1	Seal, O'Ring				(7/16–14 x 1")
41	526-0399-42	4	Washer, Flat (3/8")	56	526-0399-43	12	Washer, Flat (7/16")
42	862-0026-07	4	Nut, Hex (3/8–16)	57			Bracket, Generator Support
43	234-0185	1	Cover, Endbell				60 Hz
44	812-0165	2	Screw, Round Head Machine		232-2452	1	15kW, 20kW, 24kW, 25kW
			(1/4-20 x 4-1/2")		232-3900	1	30kW, 32kW, 35kW, 37kW
45	319-2501	1	Cover, Output Box				50 Hz
46	526-0399-11	4	Washer, Flat (#10)		232-2452	1	12kW, 16kW, 20kW
47	853-0040-04	4	Washer, ET (#10)		232-3900	1	24kW, 30kW
48	822–2160–37	4	Screw, Pan Head Slot (#10-32 x 1/2")				



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	231-0363	1	Adapter, Generator	26			Stator
2	232–2576	1	Retainer, Bearing				Single Phase
3	232–2453	1	Cover, Bearing				60 Hz
4	526-0399-13		Washer, Flat (1/4")		220-4527-01	1	15kW
5	800-0310-07	3	Screw, Hex Head Cap		220-4527-02		20kW
			(1/4-20 x 1-1/4")		220-4527-03		25kW
6	232-3916	1	Fan Guard		220-4527-04	1	30kW
7	800-0310-02	12	Screw, Hex Head Cap		220-4527-05	1	35kW
			(1/4–20 x 1/2")				50 Hz
8			Rotor Assy (Includes Parts		220-4527-01	1	12kW
			Marked *)		220-4527-02		16kW
			60 Hz		220-4527-03		20kW
	201–3543–01	1	15kW		220–4527–04		25kW
	201–3543–02	1	20kW		220–4527–05	1	30kW
	201–3543–03	1	25kW				Three Phase
	201–3543–04	1	30kW, 32kW				60 Hz
	201–3543–05	1	35kW, 37kW, 40kW		220-4528-01	1	15kW
	004 0540 04		50 Hz		220-4528-02		20kW
	201–3543–01	1	12kW		220-4528-03		25kW
	201–3543–02	1	16kW		220-4528-04		32kW
	201–3543–03	1	20kW		220–4528–05	1	37kW, 40kW
	201–3543–04	1	25kW		000 4500 01	4	50 Hz
0	201–3543–05	1 1	30kW, 31kW		220-4528-01	1 1	12kW
9 10	518-0333	1	*Ring, External Retainer		220-4528-02 220-4528-03		16kW 20kW
10 11	510–0115 205–0247	1	*Bearing, Ball (With Snap Ring) *Fan, Generator		220-4528-04		25kW
12	515-0212	1	Key, Machined		220-4528-05		30kW, 31kW
13	515-0212	1	*Key, Machined	27	232–3961	1	Board, Connection
14	313-0031	'	*Rotor, Exciter (Includes Parts	28	815–0194	2	Screw, ET Hex Head Thread
1-7			Marked +)	20	010 0104	_	Cutting (#10–32 x 3/8")
			60 Hz	29			Stator, Exciter
	201–2151	1	15kW, 20kW, 24kW, 25kW				60 Hz
	201–2152	1	30kW, 35kW		220-2308	1	15kW, 20kW, 25kW
		-	50 Hz		220–2309	1	30kW, 32kW, 35kW, 37kW,
	201-2151	1	12kW, 16kW, 20kW				40kW
	201-2152	1	24kW, 30kW				50 Hz
15	870-0131	6	+Nut, ET Hex		220-2308	1	12kW, 16kW, 20kW
16	526-0008	10	+Washer, Flat (#10)		220-2309	1	25kW, 30kW, 31kW
17	853-0008	4	+Washer, ET Lock (#10)	30			Screw, Slotted Head
18	813-0100	4	+Screw, Round Head Machine				Countersunk (1/4–20)
			(10-32 x 1/2")		802-0038	4	15kW, 20kW, 25kW
19			+Rectifier Assy		802-0040-01	4	30kW, 32kW, 35kW, 37kW
	358–0069	1	Positive				40kW
	358-0070	1	Negative				50 Hz
20	515-0094	1	*Key, Woodruff (#6)		802–0038	4	12kW, 16kW, 20kW
21	232–2398	1	*Spacer, Bearing		802-0040-01	4	25kW, 30kW, 31kW
22	870–0284	1	*Nut, Nylon Insert Lock (1–1/8–12UNF)	31	850-0114-05	4	Washer, Lock (1/4")
23	510-0112	1	*Bearing, Ball	*	Parts Included	in Gana	rator Rotor
24	526-0008	2	*Washer, Flat (#10)		Parts Included		
25	870–0131	2	*Nut, ET Hex (#10–32)	+ -	i aris iriciuueu	III LXCILE	a rioloi.



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
32	895-0365	1	Gasket, Output Box (2.2')	47	862-0026-08	4	Nut, Hex (7/16-14)
33 34	509–0094 211–0256–01	1	Seal, O'Ring Endbell	48			Foot, Right Mounting 60 Hz
35	508-0239	1	Edging (6")		232-2577	1	15kW, 20kW, 25kW
36	526-0399-42	8	Washer, Flat (3/8")		232-3893	1	30kW, 32kW, 35kW, 37kW,
37			Stud, Through				40kW
			60 Hz				50 Hz
	520-0797	4	15kW		232-2577	1	12kW, 16kW, 20kW
	520-0799	4	20kW		232-3893	1	25kW, 30kW, 31kW
	520-0800	4	25kW	49			Foot, Left Mounting
	520-0801	4	30kW, 32kW				60 Hz
	520-0802	4	35kW, 37kW, 40kW		232-2578	1	15kW, 20kW, 25kW
			50 Hz		232-3892	1	30kW, 32kW, 35kW, 37kW
	520-0797	4	12kW				40kW
	520-0799	4	16kW				50 Hz
	520-0800	4	20kW		232–2578	1	12kW, 16kW, 20kW
	520-0801	4	25kW		232–3892	1	25kW, 30kW, 31kW
	520-0802	4	30kW, 31kW	50	800-0310-50	8	Screw, Hex Head Cap
38	234–0969	1	Baffle, Air				(7/16–14 x 1")
39	232–3956	1	Box, Reconnect	51	526-0399-43	12	Washer, Flat (7/16")
40	862-0026-07	4	Nut, Hex (3/8–16)	52			Bracket, Generator Support
41	822–2160–37	2	Screw, Pan Head Slot			_	60 Hz
			(#10–32 x 1/2")		232–2452	1	15kW, 20kW, 25kW
42	862-0026-54	16	Nut, Hex (M6 x 1)		232–3900	1	30kW, 32kW, 35kW, 37kW
43	526-0222	8	Washer, Flat Brass (1/4")				40kW
44	232–3963	4	Link, Bus		000 0450	_	50 Hz
45	332–3249	2	Block, Terminal		232–2452	1	12kW, 16kW, 20kW
46	232–3955	1	Cover, Inlet		232–3900	1	25kW, 30kW, 31kW

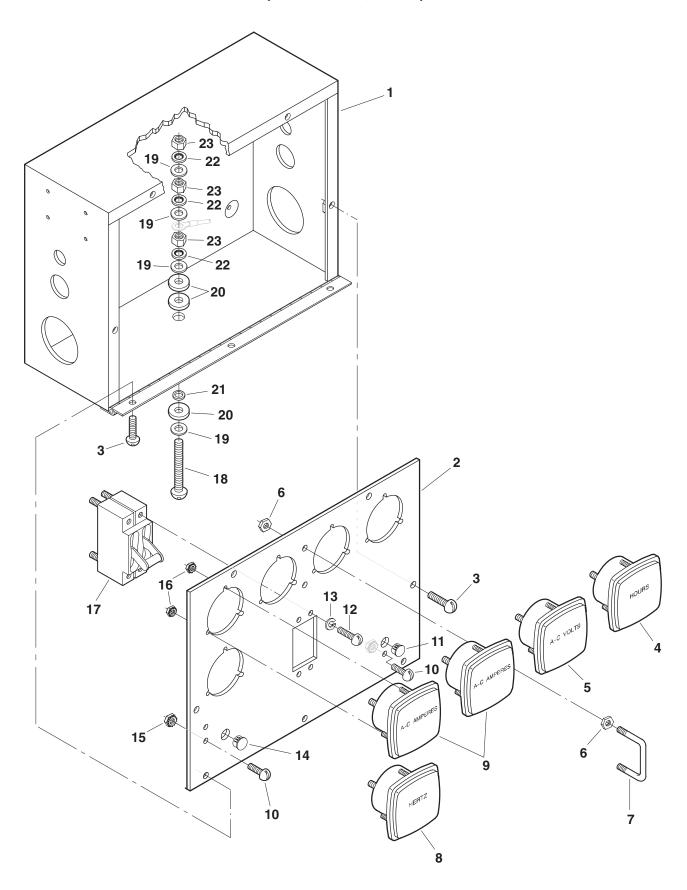


Regulator

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	110.	OOLD	DEGGTIII THOM			COLD	DECORM HOR
1	305-0722-01	1	Regulator Assy (Includes Parts	11	332-1658	1	+Strip, Terminal
			Marked +)	12	331-0115	1	+Connector, Straight
2	305-0688	1	+Regulator, Voltage	13	331-0041	1	+Locknut, 1/2 Conduit
3	812–0071	4	+Screw, Round Head Machine (#6-32 x 1-1/2")	14	812–0063	2	+Screw, Round Head Machine (#6-32 x 1/2")
4	332-2617	2	+Terminal, Tab	15	320-1121-01	1	+Breaker, Circuit
5	332-2605	1	+Jumper, Terminal	16	821-0004	4	Screw, Hex Flange Lock
6	315-0391	1	+Reactor				(#10-32 x 5/16")
7	870-0183	10	+Nut, ET Hex (#6-32)	17	301-3753	1	Cover, Regulator
8	315-0386	1	+Transformer, Voltage				-
9	301–8852	1	+Panel, Voltage Regulator Mounting	+ -	Parts Included	in Regu	ulator Assy.
10	812-0070	4	+Screw, Round Head Machine (#6–32 x 1–1/4")				·

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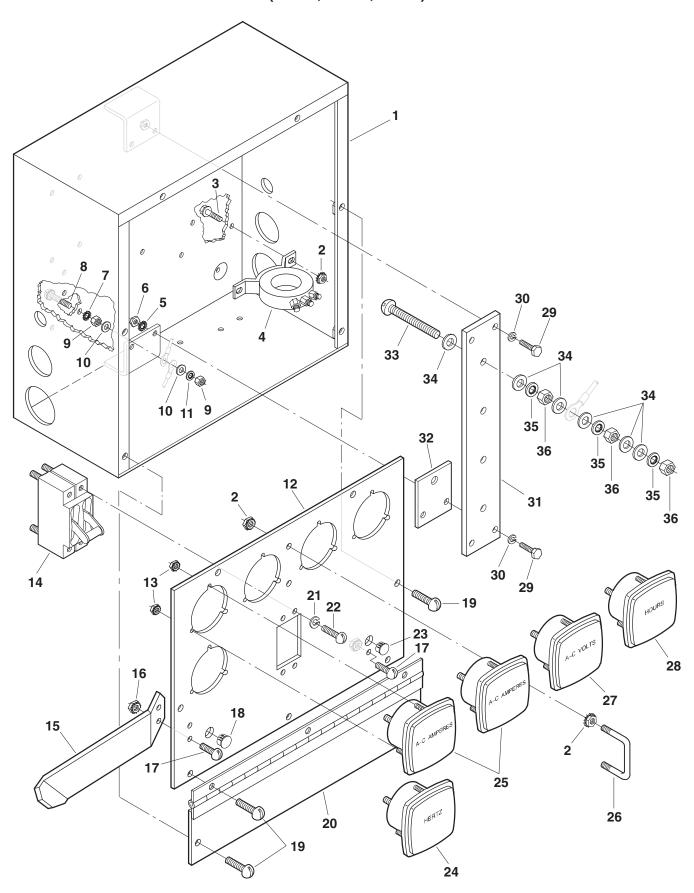
Switchboard Components (12KW, 15KW, 16KW)



Switchboard Components (12KW, 15KW, 16KW)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
			Switchboard Assy	11	517-0131	1	Plug, Hole (3/8" Hole)
	300-4589	1	60 Hz (15kW)	12	812-0061	4	Screw, Round Head Machine
	300-4700	1	50 Hz (12kW, 16kW)				(#6-32 x 3/8")
1	301-2087	1	Box, Switchboard	13	850-0020	4	Washer, Spring Lock (#6)
2	301-2288	1	Panel, Control	14	517-0132	1	Plug, Hole (3/8" Hole)
3	815-0026	7	Screw, Truss Head Machine	15	870-0221	3	Nut, ET Hex (#8-32)
			(#10-32 x 3/8")	16	870-1220	15	Nut, ET Hex (#4-40)
4			Meter, Time Totalizing	17	320-1423	1	Breaker, Circuit (70A 240 VAC)
	302-0465	1	60 Hz	18	810-0155	1	Screw, Brass Round Head
	302-0468	1	50 Hz				Machine (1/4-20 x 1-1/4")
5	302-0421	1	Meter, Volt (0-300 VAC)	19	526-0052	4	Washer, Brass Flat (17/64")
6	870-0131	4	Nut, ET Hex (#10-32)	20	508-0018	3	Washer, Fiber (1/4")
7	301-2727	1	Handle, Control Panel	21	508-0006	1	Washer, Fiber (1/4")
8	302-1338	1	Meter, Frequency (45–60Hz)	22	854-1014	3	Washer, IT Lock (17/64")
9	302-0458	2	Meter, AC Amp (0-100A AC)	23	871-0016	3	Nut, Hex Brass (1/4-20)
10	812–0076	3	Screw, Round Head Machine (#8-32 x 5/16")				,

Switchboard Components (20KW, 24KW, 25kW)

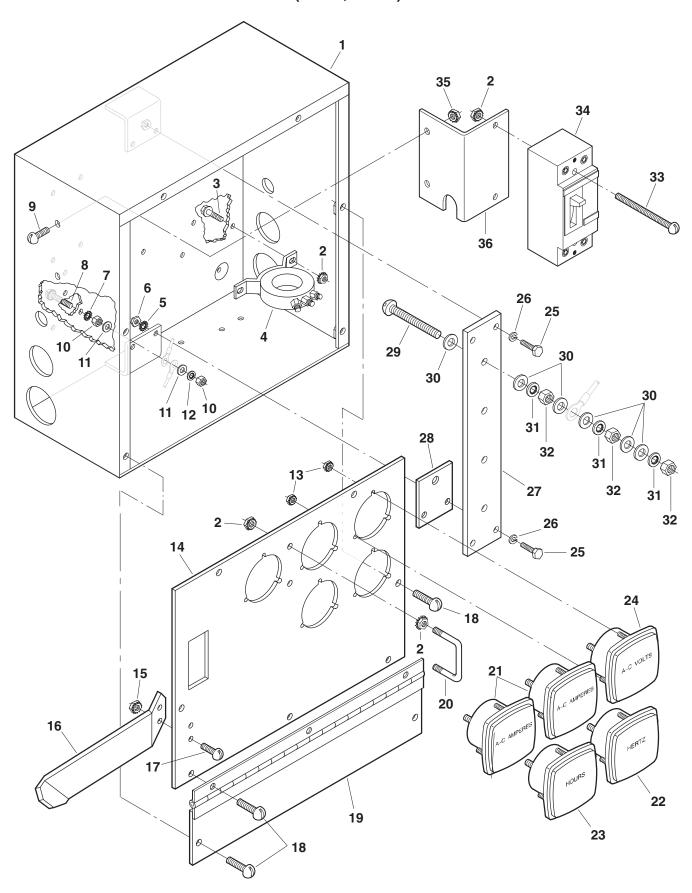


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Switchboard Components (20KW, 24KW, 25kW)

REF NO.			PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
			Switchboard Assy	16	870-0221	3	Nut, ET Hex (#8-32)
		1	60 Hz	17	812-0076	3	Screw, Round Head Machine
	300-4590	1	20kW				(#8–32 x 5/16")
	300-4591	1	24kW, 25kW	18	517-0132	1	Plug, Hole (3/8" Hole)
			50 Hz	19	815-0026	9	Screw, Truss Head Machine
	300-4701	1	20kW				(#10-32 x 3/8")
	300-4702	1	24kW, 25kW	20	301-1610	1	Panel, Lower Control
1	301-1535	1	Box, Switchboard	21	850-0020	4	Washer, Spring Lock (#6)
2	870–0131	8	Nut, ET Hex (#10–32)	22	812-0061	4	Screw, Round Head Machine
3	821-0005	4	Screw, Lock Hex Flange				(#6-32 x 3/8")
			(#10-32 x 1/2")	23	517–0131	1	Plug, Hole (3/8" Hole)
4			Transformer, Current	24	302-1338	1	Meter, Frequency (45–60Hz)
	302-1984-03		20kW	25			Meter, AC Amp (0-100A AC)
	302-1984-04		24kW, 25kW		302-0408	2	20kW, (0-100A)
5	856–0006	2	Washer, EIT Lock (1/4")		302-0410	2	24kW, 25kW (0-150A)
6	862-0001	4	Nut, Hex (1/4–20)	26	301–2727	1	Handle, Control Panel
7	856–0003	1	Washer, EIT Lock (#10)	27	302-0421	1	Meter, Volt (0–300 VAC)
8	815–0203	1	Screw, Round Head Brass ET	28			Meter, Time Totalizing
			Machine (#10-32 x 7/8")		302-0465	1	60 Hz
9	871–0010	2	Nut, Brass Hex (#10–32)		302–0468	1	50 Hz
10	526-0049	2	Washer, Brass (#10)	29	800–0007	4	Screw (1/4-20 x 1")
11	854–0010	1	Washer, IT Lock (#10)	30	850-0040	4	Washer, Spring Lock (1/4")
12	301–2288	1	Panel, Upper Control	31	332–0513	1	Block, Terminal
13	870–1220	15	Nut, ET Hex (#4-40)	32	301–0648	1	Plate, Ground
14			Breaker, Circuit (70A 240 VAC)	33	812–0185	3	Screw (5/16-18 x 2-1/4")
	320–1210	1	20kW (85A)	34	526-0054	18	Washer, Brass Flat (5/16")
	320–1207	1	24kW, 25kW (100A)	35	854-0017	9	Washer, IT Lock
15	301–1914	1	Bracket, Panel Stop	36	871–0025	9	Nut, Hex Brass (5/16-18)

Switchboard Components (30KW, 35KW)



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Switchboard Components (30KW, 35KW)

REF NO.			PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
			Switchboard Assy 60 Hz	18	815-0026	9	Screw, Truss Head Machine (#10–32 x 3/8")
	300-4592	1	30kW	19	301-1610	1	Panel, Lower Control
	300–4593	1	35kW	20	301–1010	1	Handle. Control Panel
	300–4593	1	50 Hz. 30kW	21	302-0411		,
4		1	,			2 1	Meter, AC Amp (0–200A AC)
1	301–3105	•	Box, Switchboard	22	302–1338	1	Meter, Frequency (45–60Hz)
2	870-0131	10	Nut, ET Hex (#10–32)	23	000 0405		Meter, Time Totalizing
3	821–0005	4	Screw, Lock Hex Flange		302-0465	1	60 Hz (30kW, 35kW)
			(#10–32 x 1/2")		302–0468	1	50 Hz (30kW)
4	302-1984-05	_	Transformer, Current	24	302-0421	1	Meter, Volt (0–300 VAC)
5	856–0006	2	Washer, EIT Lock (1/4")	25	800–0007	4	Screw (1/4-20 x 1")
6	862-0001	4	Nut, Hex (1/4–20)	26	850-0040	4	Washer, Spring Lock (1/4")
7	856-0003	1	Washer, EIT Lock (#10)	27	332-0513	1	Block, Terminal
8	815-0203	1	Screw, Round Head Brass ET	28	301-0648	1	Plate, Ground
			Machine (#10-32 x 7/8")	29	812-0185	3	Screw (5/16-18 x 2-1/4")
9	812-0148	2	Screw, Round Head Machine	30	526-0054	18	Washer, Brass Flat (5/16")
			(1/4-20 x 1/2")	31	854-0017	9	Washer, IT Lock (5/16")
10	871-0010	2	Nut, Brass Hex (#10-32)	32	871-0025	9	Nut, Hex Brass (5/16–18)
11	526-0049	2	Washer, Brass (#10)	33	813-0113	2	Screw, Round Head Machine
12	854-0010	1	Washer, IT Lock (#10)				(#10-32 x 2-3/4")
13	870-1220	15	Nut, ET Hex (#4-40)	34			Breaker, Circuit (70A 240 VAC)
14	301-3739	1	Panel, Upper Control	_	320-0343	1	30kW, 150A
15	870-0221	2	Nut, ET Hex (#8–32)		320-0344	1	35kW. 175A
16	301–1914	1	Bracket, Panel Stop	35	870-0232	2	Nut, ET Hex (1/4–20)
17	812–0077	2	Screw, Round Head Machine (#8–32 x 3/8")	36	301–3043	1	Bracket, Circuit Breaker

Labels

REF	PART	QTY	PART	REF	PART	QTY	PART
NO.	NO.	USED	DESCRIPTION	NO.	NO.	USED	DESCRIPTION
	98–6958	1	Label, AC Schematic		98–7046	1	Label, ProTec
	98-6195	1	Label, Caution		98-6982	1	Label, SW Board Assy
	98-5347-01	1	Label, Danger (Hazardous		98-7051	1	Label, TB21
			Voltage) (Used on Outside of		98-4798	1	Label, Warning (Rotating Parts)
			Output Cover)		98-7075-01	2	Label, Warning (Hazardous
	98-5387-01	1	Label, Danger (Hazardous				Voltage)
			Voltage) (Used on Inside of				Label, WD Switchboard
			Control Cover)		98-6979	1	15kW
	98-7050	1	Label, Danger (Hazardous		98-6975	1	20kW, 24kW
			Voltage) (Used on Voltage		98-6976	1	30kW, 35kW
			Regulator Assy)				
	98-5338	1	Label, No Step				

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